

## ABSTRACT

An improved apparatus and system for a re-configurable optical channel dropping de-multiplexer is herein disclosed. A re-  
configurable channel dropping de-multiplexer in accordance with  
the present invention comprises an input, a first polarizing port  
optically coupled to the input, a first polarization modulator  
optically coupled to the first polarizing port, a polarization beam  
splitter (PBS) having a first side that is optically coupled to the  
first polarization modulator at a side opposite to the first polarizing  
port, a second polarization modulator optically coupled to the PBS  
at a second side of the PBS that is opposite to the first side, a  
second polarizing port optically coupled to the second polarization  
modulator at a side opposite to the PBS and a multiple-channel  
output optically coupled to the second polarizing port.